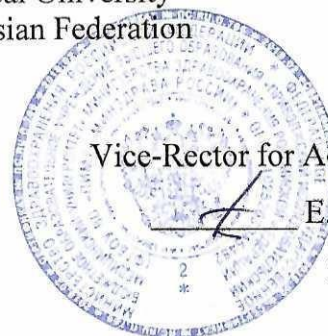


Federal State Budgetary Educational Institution of Higher Education
"Privolzhsky Research Medical University"
Ministry of Health of the Russian Federation



APPROVED

Vice-Rector for Academic Affairs

E.S. Bogomolova

31 August 2021

WORKING PROGRAM

Name of the academic discipline: **EMERGENCIES IN THERAPY**

Specialty: **31.05.01 GENERAL MEDICINE**

(code, name)

Qualification: **GENERAL PRACTITIONER**

Department: Department of Endocrinology and Internal Medicine

Mode of study: **FULL-TIME**

Labor intensity of the academic discipline: **72 academic hours**

Nizhny Novgorod
2021

The working program has been developed in accordance with the Federal State Educational Standard for specialty 31.05.01 GENERAL MEDICINE approved by Order of the Ministry of Science and Higher Education of the Russian Federation No. 988 of August 12, 2020.

Developers of the working program:

Morozova Elena Pavlovna, Candidate of Medical Sciences, Docent of the Department of Endocrinology and Internal Medicine.

Reviewers: Necrasov Alexey Anatolievich, Doctor of Medical Sciences, Docent, The head of the Department of Faculty and Polyclinic Therapy of "Privolzhsky Research Medical University";

Grygorieva Natalia Yurievna, Doctor of Medical Sciences, Docent, The head of the Department of Clinical Medicine of Nyzhegorodsky University named by N.I. Lobachevsky

The program was reviewed and approved at the department meeting of Endocrinology and Internal Medicine.

protocol

№ 9, date 15 of April 2021

Head of the Department of Endocrinology and Internal Medicine,

Doctor of Medical Sciences professor,

Стронгин Л.Г. (Strongin L.G.)
(signature)

15 of April 2021

AGREED

Deputy chief of Head of the EMA

Л. В. Ловтсова

L. V. Lovtsova

(signature)

29 of April 2021

1. The purpose and objectives of mastering the discipline "Urgent conditions in therapy".

1.1 The purpose of mastering the discipline "Emergency conditions in therapy"

As a result of mastering the discipline program, a graduate should have universal, general professional and professional competencies: CC – 1,4,5; OPC – 1, 4, 5,10; PC – 5, 6, 7, necessary to achieve work functions in accordance with the Professional standard of a medical doctor (district therapist)

Universal competencies:

Systemic and critical thinking (category)

CC-1 is able to carry out a critical analysis of problematic situations based on a systematic approach, to develop a strategy of actions

Communication.

UK-4 is able to apply modern communication technologies, including in a foreign language, for academic and professional interaction

Cross-cultural interaction

UK-5 is able to analyze and take into account the diversity of cultures in the process of intercultural interaction

General professional competencies:

Ethical and legal foundations of professional activity.

OPK-1 is able to implement moral and legal norms, ethical and deontological principles in professional activity

Diagnostic instrumental methods of examination

OPK-4 is capable of using medical devices provided for by the procedure for providing medical care, as well as conducting examinations of the patient in order to establish a diagnosis

Etiology and pathogenesis

OPK-5 is able to evaluate morphofunctional, physiological states and pathological processes in the human body to solve professional tasks

Information literacy

OPK-10 is able to solve standard tasks of professional activity using information, bibliographic resources, medical and biological terminology, information and communication technologies, taking into account the basic requirements of information security

Professional:

Conducting a patient examination in order to establish a diagnosis (labor function)

PC-5 is able to collect complaints, anamnesis of the patient's life and illness, conduct a complete physical examination of the patient (examination, palpation, percussion, auscultation), formulate a preliminary diagnosis and make a plan for laboratory and instrumental examinations of the patient

The PC-6 is able to refer the patient for laboratory, instrumental examination, for consultation with specialist doctors if there are medical indications in accordance with the current procedures for providing medical care, on issues of providing medical care taking into account the standards of medical care, as well as to refer the patient for specialized medical care in inpatient conditions or in a day hospital when availability of medical indications in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care

PC-7 is able to carry out differential diagnostics with other diseases/conditions, including urgent ones, to establish a diagnosis taking into account the current international statistical classification of diseases and health-related problems (ICD)1. The purpose and objectives of mastering the academic discipline _____ (hereinafter – the discipline):

1.2. Objectives of the discipline:

1. To form knowledge of symptoms, syndromes, features of anamnesis, modern methods

of clinical, laboratory and instrumental examination of patients with diseases of internal organs; etiology, pathogenesis, clinical manifestations, features of the course and possible complications occurring in typical form in adult patients of various age groups; diagnostic criteria of diseases and emergency conditions; methodology of diagnosis in accordance with the modern International Statistical Classification of Diseases ICD-10 (11)

2. To form the ability to determine the status of the patient: to collect anamnesis, to conduct a survey of the patient and / or his relatives, to conduct a physical examination of the patient (examination, palpation, percussion, auscultation, blood pressure measurement, etc.); to conduct an initial examination of all body systems.

3. To form skills: evaluation of the results of physical examination of patients with diseases of internal organs; interpretation of the results of laboratory, instrumental diagnostic methods; drawing up an algorithm for making a detailed clinical diagnosis in accordance with the modern International Statistical Classification of Diseases ICD-10 (11)

4. To provide the opportunity to acquire practical experience in the diagnosis of diseases of internal organs in a simulation center

Upon completion of the course of Propaedeutics of internal diseases, which includes a series of lectures, clinical practical classes, independent work, the student must:

Know:

- Algorithm of examination of therapeutic patients, rules and stages of examination of the patient, physical methods of examination of the patient;
- Anatomical and physiological, age and sexual characteristics of a healthy and sick person;
- The causes of the main pathological processes in the body and the mechanisms of their development; etiology, pathogenesis and preventive measures of the most common diseases;
- The main clinical symptoms and syndromes of diseases of internal organs, urgent conditions in patients with various therapeutic diseases, taking into account their course;
- Symptomatology of the most common diseases of internal organs, clinical picture, features of the course and possible complications of the most common diseases occurring in a typical form in different age groups;
- Classical diagnostic methods, their diagnostic capabilities in the examination of a patient with a therapeutic profile, modern methods of clinical, laboratory, instrumental examination of patients (immunological, endoscopic, radiation diagnostic methods);
- Methodology of diagnosis, diagnostic criteria. Principles of clinical diagnosis in a therapeutic patient in accordance with the modern International Statistical Classification of Diseases ICD-10 (11);
- The structure of the medical history and the rules for filling it out and maintaining;
- Lexical minimum of general and terminological character, basic medical terminology in Latin and foreign languages;
- Principles of ethics and deontology, rules of conduct of a doctor with colleagues, with secondary and junior medical staff, with a patient, with his relatives;
- Factors shaping human health; diseases associated with the adverse effects of climatic and social factors.

Be able to:

- Conduct a survey of the patient or his relatives, collect anamnesis of life and history of the disease in order to determine the status of the patient and obtain complete information about the disease, establishing possible causes of its occurrence in typical cases;
- Assess the factors affecting the patient's physical and psychological health: professional, environmental, cultural, ethnic, religious, individual, family, social risk factors;
- Conduct a clinical examination of patients using physical methods (examination, percussion, palpation, auscultation, measurement of blood pressure, respiratory rate, pulse) and identify objective signs of the disease;

- Conduct an initial examination of the patient's systems and organs;
 - Identify the main pathological symptoms and syndromes, urgent conditions in patients with various therapeutic diseases, taking into account their course and substantiate them;
 - Establish, substantiate and formulate a clinical diagnosis of the most common diseases of internal organs occurring in a typical form in accordance with the International Classification of Diseases ICD 10 (11);
 - Assess the patient's condition and priorities for making a decision on the need to provide him with medical care: critical condition, pain syndrome, chronic disease, infectious disease, disability, geriatric problems;
 - To plan the volume of additional laboratory and instrumental studies in accordance with the prognosis of the disease, to clarify the diagnosis and obtain a reliable result;
 - Decipher typical ECGs in 12 leads of a healthy person, as well as patients with the most frequent rhythm and conduction disorders, with ventricular myocardial hypertrophy, acute myocardial infarction and chronic forms of coronary artery disease;
 - Evaluate the results of a general blood test, urine, sputum, feces, pleural effusion, as well as a biochemical blood test;
 - To determine changes in the main pulmonary syndromes from the radiograph of the lungs;
 - Evaluate the results of ultrasound examination of internal organs and the results of echocardiography;
 - Present the results of the examination of the patient in the form of a medical history with justification of the preliminary diagnosis, registration of a temperature sheet and drawing up a plan for further examination of the patient. To report the patient's medical history at a medical conference;
 - Work with scientific and medical literature;
 - Make a public presentation, report, and lead a discussion;
 - To train patients and their relatives in basic hygienic measures of a health-improving nature, skills of self-control of basic physiological indicators that contribute to the preservation and promotion of health, disease prevention.
 - To carry out their activities taking into account the moral, ethical and legal norms accepted in society, to keep medical secrets;
 - Build and maintain working relationships with other members of the team; protect the rights of the doctor and the patient;
 - Work with texts of professional content in a foreign language, use at least 900 terminological units and term elements;
- Have practical experience:
- Applying medical knowledge in practice;
 - Communication with medical personnel, with patients and their relatives, taking into account ethnic, confessional and cultural differences, ethical and deontological aspects of medical activity;
 - Work with patients to inform them and their relatives in accordance with the requirements of the "informed consent" rules;
 - The use of foreign languages to the extent necessary for communication and obtaining information from foreign sources, reading and writing skills in Latin clinical and pharmaceutical terms and recipes;
 - Work with modern medical scientific literature and regulatory documents;
 - Collaboration with colleagues of related specialties;
 - Conducting a physical general clinical examination of the patient (survey, examination, palpation, percussion, auscultation, blood pressure measurement, assessment of pulse characteristics, respiration, ECG);
 - Filling in the inpatient patient's medical history;
 - Carrying out diagnostic measures of pathological symptoms and syndromes, urgent conditions

in patients with various therapeutic diseases, taking into account their course;

- Interpretation of the results of laboratory, instrumental studies and methods of radiation diagnostics;
- Making a clinical diagnosis in a therapeutic patient, taking into account generally accepted requirements and the International Classification of Diseases ICD10 (11);
- Development of a plan of therapeutic and preventive measures taking into account the peculiarities of the development and course of the disease;
- Work on teaching patients and their relatives basic hygienic measures of a health-improving nature, skills of self-control of basic physiological indicators that contribute to the preservation and promotion of health, disease prevention.;
- Work on a personal computer using modern statistical programs of medical statistics and analysis.

2. Position of the academic discipline in the structure of the General Educational Program of Higher Education (GEP HE) of the organization.

2.1. The discipline belongs to the academic cycle of Block 1 of the Discipline (modules), the variable part, the discipline of choice B1.V.DV.1

The discipline is studied in the fifth semester.

2.2. To study the discipline requires knowledge, skills and practical experience formed by previous disciplines and practices: physics, mathematics, chemistry, bioorganic chemistry, biology, anatomy, patient care, biochemistry, clinical aspects of biochemistry, normal physiology, methods of research of physiological functions, pathological physiology, clinical pathophysiology, pathological anatomy, clinical pathological anatomy, pharmacology, first aid, educational practice – patient care of therapeutic profile.

2.3. The study of the discipline is necessary to gain knowledge, skills and practical experience formed by subsequent disciplines and practices: faculty therapy, occupational diseases, polyclinic therapy, hospital therapy, endocrinology, infectious diseases, rheumatology, gastroenterology, fundamentals of emergency care, industrial practice – physician assistant, industrial practice – assistant physician outpatient clinic.

3. Deliverables of mastering the academic discipline and metrics of competence acquisition

Mastering the discipline aims at acquiring the following universal (UC) or/and general professional (GPC) or/and professional (PC) competencies

Competence code	The content of the competence (or its part)	Code and name of the competence acquisition metric	As a result of mastering the discipline, the students should:		
			know	be able to	possess
UC-1	is able to carry out a critical analysis of problem situations based on a systematic approach, to develop a	1. IUK 1.1 Knows: methods of critical analysis and evaluation of modern scientific achievements; basic principles of critical analysis	methods of critical analysis and evaluation of modern scientific achievements	to gain new knowledge based on analysis, synthesis, etc.; to collect	research of the problem of professional activity with the use of analysis, synthesis and

		strategy for actions of	<p>IUK 1.2 is able to: gain new knowledge based on analysis, synthesis, etc.; collect data on complex scientific problems related to the professional field; search for information and solutions based on actions, experiment and experience</p> <p>IUK 1.3 Has practical experience: researching the problems of professional activity using analysis, synthesis and other methods of intellectual activity; developing strategies for solving professional problems methods of critical analysis and evaluation of modern scientific achievements; basic principles of critical analysis to gain new knowledge based on analysis, synthesis, etc.; collect data on complex scientific problems related to to the professional field; to search for information and solutions based on actions, experiment and experience</p>	nts; basic principles of critical analysis	data on complex scientific problems related to the professional field; to search for information and solutions based on actions, experiment and experience	other methods of intellectual activity; development of an action strategy for solving professional problems
	UC-4	is able to apply modern communication technologies, including in a foreign language(s), for academic and professional interaction	4.1 Knows: the basics of oral and written communication in Russian and foreign languages, functional styles of the native language, requirements for business communication, modern means of information and communication	fundamentals of oral and written communication in Russian and foreign languages, functional styles of	express your thoughts in Russian and a foreign language in business communication	writing skills related to professional activity; experience in translating medical texts from a foreign language into Russian;

			<p>technologies</p> <p>IUK 4.2 Can: express your thoughts in Russian and a foreign language in business communication</p> <p>Russian Russian Specialist</p> <p>4.3 Has practical experience: drafting texts in Russian and foreign languages related to professional activities; experience in translating medical texts from a foreign language into Russian;</p>	<p>the native language, requirements for business communication, modern means of information and communication technologies</p>		<p>experience in speaking Russian and foreign languages</p>
	UC-5	<p>is able to analyze and take into account the diversity of cultures in the process of intercultural interaction of</p>	<p>IUK5.1 Knows: the main categories of philosophy, the laws of historical development, the basics of intercultural communication; the basic concepts of human interaction in the organization</p> <p>5.2 will be able to: present professional information competently and in an accessible manner in the process of intercultural interaction; observe ethical norms and human rights; analyze the features of social interaction taking into account national, ethno-cultural, professional characteristics</p> <p>IUK 5.3 Has practical experience in: productive interaction in a professional environment, taking into account national, ethno-cultural, professional</p>	<p>the main categories of philosophy, the laws of historical development, the basics of intercultural communication; the basic concepts of human interaction in the organization</p>	<p>to present professional information competently and in an accessible manner in the process of intercultural interaction; to observe ethical norms and human rights; to analyze the features of social interaction taking into account national, ethno-cultural, professional characteristics</p>	<p>skills of productive interaction in a professional environment, taking into account national, ethno-cultural, professional characteristics; overcoming communicative, educational, ethnic, professional and other barriers in the process of intercultural interaction</p>

			characteristics; overcoming communicative, educational, ethnic, confessional and other barriers in the process of intercultural interaction.			
	OPC-1	is able to implement moral and legal norms, ethical and deontological principles in professional activity	<p>IOPK 1.1 Knows: fundamentals of medical ethics and deontology; fundamentals of legislation in the field of healthcare; legal aspects of medical activity</p> <p>IOPK 1.2 is able to: apply ethical norms and principles of behavior of a medical worker in the performance of their professional duties; knowledge of modern legislation in the field of healthcare in solving professional tasks; apply rules and norms of interaction of a doctor with colleagues and patients (their legal representatives)</p> <p>IOPK 1.3 Has practical experience: solving standard tasks of professional activity on the basis of ethical norms and deontological principles when interacting with colleagues and patients (their legal representatives), knowledge of legal aspects of medical activity</p>	legal aspects of medical activity to apply ethical norms and principles of behavior of a medical worker when performing their professional duties; knowledge of modern legislation in the field of healthcare when solving problems of professional activity;	apply rules and norms of interaction of a doctor with colleagues and patients (their legal representatives)	practical experience: solving standard tasks of professional activity based on ethical norms and deontological principles when interacting with colleagues and patients (their legal representatives), knowledge of legal aspects of medical activity
	OPC-4	is able to use medical devices provided for by	IOPK 4.1 Knows the methodology for collecting anamnesis	collect complaints anamnesis	collect complaints anamnesis	collection of complaints,

		<p>the procedure for providing medical care, as well as to conduct examinations of the patient in order to establish the diagnosis</p>	<p>of life and diseases, complaints from patients (their legal representatives); the methodology of examination and physical examination; clinical picture, methods of diagnosis of the most common diseases; methods of laboratory and instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting their results; international statistical classification of diseases and health-related problems (ICD); conditions requiring emergency medical care; the procedure for the use of medical devices in accordance with current medical procedures, clinical recommendations (treatment protocols) on the provision of medical care, care taking into account the standards of medical care</p> <p>IOPC 4.2 is able to: collect complaints, anamnesis of life and disease in patients (their legal representatives), identify risk factors and causes of disease development; apply methods of examination and physical examination of patients; interpret the results of</p>	<p>of life and disease in patients (their legal representatives), identify risk factors and causes of diseases; apply methods of examination and physical examination of patients; interpret the results of examination and physical examination of patients; diagnose the most common pathology in patients; identify risk factors for oncological diseases; formulate a preliminary diagnosis, make a plan for conducting laboratory, instrumental and additional studies in patients in</p>	<p>of life and disease in patients (their legal representatives), identify risk factors and causes of diseases; apply methods of examination and physical examination of patients; interpret the results of examination and physical examination of patients; diagnose the most common pathology in patients; identify risk factors for oncological diseases; formulate a preliminary diagnosis, make a plan for conducting laboratory, instrumental and additional studies in patients in</p>	<p>anamnesis of life and disease in patients (their legal representatives), identification of risk factors and causes of diseases; examination and physical examination of patients; diagnosis of the most common diseases; identification of risk factors for major oncological diseases; formulation of a preliminary diagnosis, drawing up a plan for instrumental, laboratory, additional studies, consultations of specialist doctors; referrals of patients for instrumental, laboratory, additional studies, consultations of specialist doctors in accordance with current medical care procedures,</p>
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			<p>examination and physical examination of patients; diagnose the most common pathology in patients; identify risk factors for cancer; formulate a preliminary diagnosis, make a plan for conducting laboratory, instrumental and additional studies in patients in accordance with the procedures for providing medical care, clinical recommendations, taking into account the standards of medical care; refer patients to laboratory, instrumental and additional studies in accordance with the current procedures for providing medical care, clinical recommendations, taking into account the standards of medical care; refer patients for consultations with specialist doctors in accordance with the procedures for providing medical care, clinical recommendations, taking into account the standards of medical care; interpret and analyze the results of consultations by specialist doctors of patients; interpret and analyze the results of basic (clinical) and additional (laboratory, instrumental) examination methods; conduct differential diagnosis of diseases</p>	<p>accordance with the procedures for providing medical care, clinical recommendations, taking into account the standards of medical care; refer patients to laboratory, instrumental and additional studies in accordance with the current procedures for providing medical care, clinical recommendations, taking into account the standards of medical care; refer patients for consultations with specialist doctors in accordance with the procedures for providing medical care, clinical</p>	<p>accordance with the procedures for providing medical care, clinical recommendations, taking into account the standards of medical care; refer patients to laboratory, instrumental and additional studies in accordance with the current procedures for providing medical care, clinical</p>	<p>clinical recommendations, taking into account medical care standards; interpretation of data from additional (laboratory and instrumental) examinations of patients; making a preliminary diagnosis in accordance with the international statistical classification of diseases and health-related problems (ICD); differential diagnosis of diseases; recognition of conditions arising from sudden acute diseases, exacerbation of chronic diseases without obvious signs of a threat to the patient's life and requiring medical care in an urgent form; the use of medical devices in accordance with current medical</p>
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			<p>in patients; to identify clinical signs of sudden acute diseases, conditions, exacerbations of chronic diseases without obvious signs of life-threatening, requiring medical care in an urgent form; to use medical devices in accordance with current medical procedures, clinical recommendations (treatment protocols) on the provision of medical care, assistance taking into account the standards of medical care</p> <p>IDOPK 4.3 Has practical experience in: collecting complaints, anamnesis of life and disease in patients (their legal representatives), identifying risk factors and causes of disease development; examination and physical examination of patients; diagnosis of the most common diseases; identification of risk factors for major oncological diseases; formulation of a preliminary diagnosis, drawing up a plan for instrumental, laboratory, additional studies, consultations of specialist doctors; referrals of patients for instrumental, laboratory, additional studies, consultations of specialist doctors in accordance with current medical care</p>	<p>recommendations, taking into account the standards of medical care; interpret and analyze the results of consultations by specialist doctors of patients; interpret and analyze the results of basic (clinical) and additional (laboratory, instrumental) examination methods; conduct differential diagnosis of diseases in patients; to identify clinical signs of sudden acute diseases, conditions, exacerbations of chronic diseases without obvious signs of life-threatening</p>	<p>recommendations, taking into account the standards of medical care; interpret and analyze the results of consultations by specialist doctors of patients; interpret and analyze the results of basic (clinical) and additional (laboratory, instrumental) examination methods; conduct differential diagnosis of diseases in patients; to identify clinical signs of sudden acute diseases, conditions, exacerbations of chronic diseases without obvious signs of life-threatening</p>	<p>procedures, clinical recommendations (treatment protocols) on the provision of medical care, care taking into account the standards of medical care</p>
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		<p>procedures, clinical recommendations, taking into account medical care standards; interpretation of data from additional (laboratory and instrumental) examinations of patients; making a preliminary diagnosis in accordance with the international statistical classification of diseases and health-related problems (ICD); differential diagnosis of diseases; recognition of conditions arising from sudden acute diseases, exacerbation of chronic diseases without obvious signs of a threat to the patient's life and requiring medical care in an urgent form; the use of medical devices in accordance with current medical procedures, clinical recommendations (treatment protocols) on the provision of medical care, assistance taking into account the standards of medical care methods of collecting anamnesis of life and diseases, complaints from patients (their legal representatives); methods of examination and physical examination; clinical picture, methods of diagnosis of the most common diseases; methods of</p>	<p>, requiring medical care in an urgent form; to use medical devices in accordance with current medical procedures, clinical recommendations (treatment protocols) on the provision of medical care, assistance taking into account the standards of medical care</p>	<p>, requiring medical care in an urgent form; to use medical devices in accordance with current medical procedures, clinical recommendations (treatment protocols) on the provision of medical care, assistance taking into account the standards of medical care</p>	
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			laboratory and instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting their results; international statistical classification of diseases and health-related problems (ICD); conditions requiring urgent medical care; the procedure for the use of medical devices in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, assistance taking into account the standards of medical care			
	OPC-5	is able to assess morphofunctional, physiological conditions and pathological processes in the human body to solve professional tasks,	<p>IOPK-5.1 Knows: anatomy, histology, embryology, topographic anatomy, physiology, pathological anatomy and physiology of human organs and systems</p> <p>IOPC 5. 2 is able to: evaluate the basic morphofunctional data, physiological states and pathological processes in the human body</p> <p>IOPK5. 3. Has practical experience: assessment of basic morphofunctional data, physiological conditions and pathological processes in the human body</p>	anatomy, histology, embryology, topographic anatomy, physiology, pathological anatomy and physiology of human organs and systems	to evaluate the main morphofunctional data, physiological conditions and pathological processes in the human body	to check the main morphofunctional data, physiological conditions and pathological processes in the human body

			when solving professional tasks			
	OPC-10	is able to solve standard tasks of professional activity using information, bibliographic resources, biomedical terminology, information and communication technologies, taking into account the basic requirements of information security a	<p>OPK10. 1.Knows: the capabilities of reference information systems and professional databases; methods of information retrieval, information and communication technologies; modern medical and biological terminology; fundamentals of information security in professional activities</p> <p>IOPC10. 2.He is able to: apply modern information and communication technologies to solve the tasks of professional activity; carry out an effective search for information necessary to solve the tasks of professional activity using reference systems and professional databases; use modern medical and biological terminology; master and apply modern information and communication technologies in professional activity, taking into account the basic requirements of information security</p> <p>IOPC 10 3. Has practical experience in the use of modern information and bibliographic resources, the use of special software and automated information systems to solve standard tasks of</p>	to master and apply modern information and communication technologies in professional activity, taking into account the basic requirements of information security	to apply modern information and communication technologies to solve the tasks of professional activity; to carry out an effective search for information necessary to solve the tasks of professional activity using reference systems and professional databases; to use modern medical and biological terminology	to master and apply modern information and communication technologies in professional activity, taking into account the basic requirements of information security

			<p>professional activity, taking into account the basic requirements of information security, the possibilities of reference information systems and professional databases; methods of information retrieval, information and communication technologies; modern medical and biological terminology; fundamentals of information security in professional activity</p>			
	PC-5	<p>is able to collect complaints, anamnesis of the patient's life and illness, conduct a full physical examination of the patient (examination, palpation, percussion, auscultation), formulate a preliminary diagnosis and draw up a plan for laboratory and instrumental examinations of the patient</p>	<p>IPK 5.1 Knows: The legislation of the Russian Federation in the field of health protection, regulatory legal acts and other documents defining the activity medical organizations and medical workers; methods of collecting complaints, anamnesis of the patient's life and illness; the methodology of a complete physical examination of the patient (examination, palpation, percussion, auscultation); etiology, pathogenesis and pathomorphology, clinical picture, differential diagnosis, features of the course, complications and outcomes of diseases of internal organs; regularities of functioning of a healthy human body and mechanisms of ensuring health from the standpoint of the</p>	<p>The legislation of the Russian Federation in the field of health protection, regulatory legal acts and other documents defining the activities of medical organizations and medical workers; the method of failure, anamnesis of life and disease of the patient; the method of complete physical examination of the patient (examinati</p>	<p>regularities of functioning of a healthy human body and mechanisms of ensuring health from the standpoint of the</p>	<p>collecting complaints, anamnesis of the patient's life and illness and analyzing the information received; conduct a full physical examination of the patient (examination, palpation, percussion, auscultation) and interpret its results; determining the order of the volume, content and sequence of diagnostic measures</p>

			<p>theory of functional systems; features of regulation of functional systems of the human body in pathological processes; methods of laboratory and instrumental studies to assess the state of health, medical indications for research, rules for interpreting their results</p> <p>IPK 5.2 is able to: collect complaints, anamnesis of the patient's life and illness and analyze the information received; conduct a complete physical examination of the patient (examination, palpation, percussion, auscultation) and interpret its results; determine the order of volume, content and sequence of diagnostic measures</p>	<p>on, palpation, percussion, auscultation); etiology, pathogenesis and pathomorphology, clinical picture, differential diagnosis, features of the course, complications and outcomes of diseases of internal organs;</p>	<p>health, medical indications for research, rules for interpreting their results</p>	
	PC-6	<p>Is able to refer the patient for laboratory, instrumental examination, for consultation with specialist doctors if there are medical indications in accordance with the current procedures for providing medical care, clinical recommendations (treatment protocols) on the provision of medical care,</p>	<p>IPK 6 1. Knows: general issues of organization of medical care to the population methods of laboratory and instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting their results; procedures for providing medical care, clinical recommendations (treatment protocols) on the provision of medical care</p>	<p>general issues of organization of medical care to the population methods of laboratory and instrumental studies to assess the state of health, medical indications for conducting research, rules for</p>	<p>to justify the need and scope of laboratory examination of the patient; to justify the need and scope of instrumental examination of the patient; to justify the need to refer the patient for consultatio</p>	<p>substantiation of the need and scope of laboratory examination of the patient; substantiation of the need and scope of instrumental examination of the patient; justification of the need to refer the patient for consultations with</p>

		<p>taking into account the standards of medical care, as well as to refer the patient for specialized medical care in inpatient conditions or in conditions of a day hospital in the presence of medical indications in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care</p>	<p>IPK 6 2. Is able to: justify the need and scope of laboratory examination of the patient; justify the need and scope of instrumental examination of the patient; justify the need to refer the patient for consultations with specialist doctors; determine medical indications for the provision of emergency, including emergency specialized, medical care</p>	<p>interpreting their results; procedures for providing medical care, clinical recommendations (treatment protocols) on the provision of medical care, standards of medical care</p>	<p>ns with specialist doctors; to determine medical indications for the provision of emergency, including emergency specialized, medical care</p>	<p>specialist doctors; determination of medical indications for the provision of emergency, including emergency specialized, medical care</p>
	PC-7	<p>is able to carry out differential diagnostics with other diseases/conditions, including urgent ones, to establish a diagnosis taking into account the current international statistical classification of diseases and health-related problems (ICD)</p>	<p>IPK 7.1 Knows: etiology, pathogenesis and pathomorphology, clinical picture, differential diagnosis, features of the course, complications and outcomes of diseases of internal organs; methods of laboratory and instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting their results; ICD IPK 7.2 is able to: analyze the results of the patient's examination, if</p>	<p>etiology, pathogenesis and pathomorphology, clinical picture, differential diagnosis, features of the course, complications and outcomes of diseases of internal organs; methods of laboratory and instrument</p>	<p>analyze the results of the patient's examination, if necessary, justify and plan the scope of additional studies; interpret the results of collecting information about the patient's disease; interpret the data</p>	<p>interpretation of the results of collecting information about the patient's disease; interpretation of data obtained during laboratory examination of the patient; interpretation of data obtained during instrumental examination</p>

			<p>necessary, justify and plan the scope of additional studies; interpret the results of collecting information about the patient's disease; interpret the data obtained during the laboratory examination of the patient; interpret the data obtained during the instrumental examination of the patient; interpret the data obtained during the consultations of the patient by specialist doctors; carry out differential diagnosis of diseases internal organs from other diseases</p>	<p>al studies to assess the state of health, medical indications for conducting research, rules for interpreting their results; ICD</p>	<p>obtained during the laboratory examination of the patient; interpret the data obtained during the instrumental examination of the patient; interpret the data obtained during the consultations of the patient by specialist doctors; to carry out differential diagnostics of diseases of internal organs from other diseases of the analysis of the results of the examination of the patient, if necessary, substantiation and planning of the volume of additional studies</p>	<p>of the patient; interpret data obtained during consultations of the patient by specialist doctors; differential diagnosis of diseases of internal organs from other diseases</p>
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4. Sections of the academic discipline and competencies that are formed when mastering them

Competence code	Section name of the discipline	The content of the section in teaching units
UC-1,4,5 OPK-1,4,5,10 PK-5,6.7	Urgent conditions in diseases of the respiratory system	Urgent conditions in pulmonology. Bronchial asthma attack, asthmatic status. Spontaneous and valvular pneumothorax. Pulmonary hemorrhage. Acute respiratory failure. Acute respiratory distress syndrome. Causes, mechanisms of development, clinical manifestations, diagnostic methods, emergency care.
UC-1,4,5 OPK-1,4,5,10 PK-5,6.7	Urgent conditions in diseases of the cardiovascular system	Urgent conditions in cardiology. Pulmonary embolism. Acute cardiac arrhythmias and conduction disorders. Acute vascular insufficiency. Acute coronary insufficiency. Acute left ventricular failure (cardiac asthma). Hypertensive crisis. Sudden death. Causes, mechanisms of development, clinical manifestations, diagnostic methods, emergency care.
UC-1,4,5 OPK-1,4,5,10 PK-5,6.7	Urgent conditions in diseases of the digestive system	Urgent conditions in gastroenterology. Biliary colic. Acute bleeding from the digestive tract. Hepatic encephalopathy and coma.
UC-1,4,5 OPK-1,4,5,10 PK-5,6.7	Urgent conditions in diseases of the endocrine system	Urgent conditions in diseases of the endocrine system. Thyrotoxic crisis. Hypothyroid coma. Acute insufficiency of the adrenal cortex. Hypoglycemic conditions. Diabetic ketoacidosis and ketoacidotic coma. Hyperosmolar coma. Lactic acid coma.
UC-1,4,5 OPK-1,4,5,10 PK-5,6.7	Urgent conditions in the clinic of internal diseases	Urgent conditions in the clinic of internal diseases. Infectious-toxic shock. Hypovolemic shock. Anaphylactic shock.

5. Volume of the academic discipline and types of academic work

Type of educational work	Labor intensity		Labor intensity (AH) in semesters			
	volume in credit units (CU)	volume in academic hours (AH)	4	5	6	
Classroom work, including	1,22	44	-	44		
Lectures (L)	0,28	10	-	10		
Laboratory practicum (LP)*	-	-	-	-	-	
Practicals (P)	-	-	-	-	-	
Seminars (S)	0,94	34	-	34	-	
Student's individual work (SIW)	-	-	-	-	-	
Mid-term assessment	0,78	28	-	28		
credit/exam (<i>specify the type</i>)						
TOTAL LABOR INTENSITY	-	- зачет		- зачет		

6. Content of the academic discipline

6.1. Sections of the discipline and types of academic work

№ п/п	№ sem	Name of the section of the academic discipline	Types of academic work* (in AH)						
			L	LP	P	S	C	SIW	всего
		Emergency conditions in	L	LP	P	S	C	SIW	всего

1.	5	diseases of the respiratory system	2	-	-	6	-	6	16
2.	5	Urgent conditions in diseases of the cardiovascular system	4	-	-	12	-	8	22
3.	5	Urgent conditions in diseases of the digestive system	2	-	-	4	-	4	10
4.	5	Urgent conditions in diseases of the endocrine system	2	-	-	10	-	8	20
5.	5	Urgent conditions in the clinic of internal diseases	-	-	-	2	-	2	4

* - L – lectures; LP – laboratory practicum; P – practicals; S – seminars; SIW – student's individual work.

6.2. Thematic schedule of educational work types:

6.2.1 Thematic schedule of lectures

№	Name of lecture topics	Volume in AH semester	
	Urgent conditions in pulmonology. Modern diagnostics. Emergency care.	2	
	Emergency conditions in cardiology. Modern approaches in diagnosis and treatment. Part 1.	2	
	Emergency conditions in cardiology. Modern approaches in diagnosis and treatment. Part 2.	2	
	Urgent conditions in diseases of the digestive system. Modern diagnostics. Emergency care.	2	
	Urgent conditions in diseases of the endocrine system. Modern approaches in diagnosis and treatment	2	
	TOTAL (total - AH)	10	

6.2.2. The thematic plan of laboratory practicums (if this type of classes is stipulated in the curriculum)

№	Name of laboratory practicums	Volume in AH semester	
1	Urgent conditions in pulmonology. Bronchial asthma attack, asthmatic status. Spontaneous and valvular pneumothorax. Pulmonary hemorrhage. Acute respiratory failure. Acute respiratory distress syndrome. Causes, mechanisms of development, clinical manifestations, diagnostic methods, emergency care. Patient supervision in the intensive care unit	6	
2	Emergency conditions in cardiology. Pulmonary embolism. Acute cardiac arrhythmias and conduction disorders. Acute vascular insufficiency. Causes, mechanisms of development, clinical manifestations, diagnostic methods, emergency care.	6	
3	Emergency conditions in cardiology. Acute coronary insufficiency. Acute left ventricular failure (cardiac asthma). Hypertensive crisis. Sudden death. Causes, mechanisms of development, clinical manifestations, diagnostic methods, emergency care. Patient supervision in the intensive care unit.	6	
4	Urgent conditions in gastroenterology. Biliary colic. Acute bleeding from the digestive tract. Hepatic encephalopathy and	6	

	coma.		
5	Urgent conditions in the clinic of internal diseases. Infectious-toxic shock. Hypovolemic shock. Anaphylactic shock.	5	
6	Urgent conditions in diseases of the endocrine system. Hypoglycemic conditions. Diabetic ketoacidosis and ketoacidotic coma. Hyperosmolar coma. Lactic acid coma. Causes, mechanisms of development, clinical manifestations, diagnostic methods, emergency care. Patient supervision in the intensive care unit.	5	
	TOTAL (34 - AH)		

6.2.3. Name of the type and topic of the SRS

№ n/n	Name of the type and topic of the SRS	Volume in h		
		IV	V	VI
1	Work with lecture material, review and study of literature, work with electronic educational resources on the topic: Urgent conditions in pulmonology. Bronchial asthma attack, asthmatic status. Spontaneous and valvular pneumothorax. Pulmonary hemorrhage. Acute respiratory failure. Acute respiratory distress syndrome. Causes, mechanisms of development, clinical manifestations, diagnostic methods, emergency care. Work with electronic educational programs on lung auscultation, interpretation of radiographs, spirometry results, preparation for clinical practical training; answers to control questions; preparation for computer testing, center, solving situational professional tasks.		6	
2	Work with lecture material, review and study of literature, work with electronic educational resources on the topic: Emergency conditions in cardiology. Pulmonary embolism. Acute cardiac arrhythmias and conduction disorders. Acute vascular insufficiency. Causes, mechanisms of development, clinical manifestations, diagnostic methods, emergency care. Preparation for practical training, interpretation of cardiograms, laboratory results, answers to control questions; preparation for computer testing, solving situational professional tasks.		6	
3	Work with lecture material, study of lectures and educational literature Review and study of literature, work with electronic educational resources on the topic: Emergency conditions in cardiology. Acute coronary insufficiency. Acute left ventricular failure (cardiac asthma). Hypertensive crisis. Sudden death. Causes, mechanisms of development, clinical manifestations, diagnostic methods, emergency care. Preparation for a practical lesson, interpretation of cardiograms, laboratory results, answers to control questions; preparation for computer testing, solving situational professional tasks.		6	
4	Work with lecture material, study of lectures and educational literature Review and study of literature, work with electronic educational resources on the topic: Urgent conditions in gastroenterology. Biliary colic. Acute bleeding from the digestive tract. Hepatic encephalopathy and coma. Urgent conditions in the clinic of internal diseases. Infectious-toxic shock. Hypovolemic shock. Anaphylactic shock. Preparation for a practical lesson, interpretation of the results of laboratory and instrumental research methods, answers to control questions; preparation for computer testing, solving situational professional tasks.		6	
5	Work with lecture materials and educational literature on the topic: Urgent conditions in diseases of the endocrine system. Thyrotoxic crisis. Hypothyroid coma. Acute insufficiency of the adrenal cortex. Hypothalamic-pituitary coma. Acute hypercalcemic and hypocalcemic crisis. Causes, mechanisms of development, clinical manifestations, diagnostic methods, emergency care. Preparation for practical training, interpretation of the results of laboratory and instrumental research methods, answers to control questions; preparation for computer testing, solving situational professional tasks.		5	

6	Work with lecture material, review and study of literature, work with electronic educational resources on the topic: Urgent conditions in diseases of the endocrine system. Hypoglycemic conditions. Diabetic ketoacidosis and ketoacidotic coma. Hyperosmolar coma. Lactic acid coma. Causes, mechanisms of development, clinical manifestations, diagnostic methods, emergency care. Preparation for the lesson, interpretation of laboratory results, preparation for clinical practical classes; answers to control questions; solving situational professional tasks, writing a medical history.		5	
TOTAL (всего - 28 АЧ)			28	

6.2.4. Student's research work:

№ п/п	Name of seminar topics	SEMESTER
1	Differential diagnosis emergency conditions in pulmonology	5
2	Pulmonary embolism in the Clinic of internal Diseases	5
3	The possibilities of ECHO-KG in the diagnosis of emergency conditions in cardiology	5
4	Modern instrumental and functional methods in the diagnosis of emergency conditions	5
5	Acute respiratory distress syndrome in the clinic of internal Diseases. The current state of the problem.	5
6	Acute rhythm and conduction disorders in cardiology practice. Modern diagnostic and treatment capabilities.	5
7	Diagnosis of emergency syndromes in the clinic of internal diseases. Infectious-toxic shock. Modern diagnostics and treatment.	5
8	Pathogenetic approaches in the treatment of various types of hypertensive crisis. Modern features.	5
9	Paroxysmal tachyarrhythmias in the clinic of internal diseases. Modern methods of treatment.	5
10	Acute complications of diabetes mellitus. Modern diagnostic and treatment capabilities.	5
11	Urgent conditions in diseases of the thyroid gland and hypothalamic-pituitary region. Differential diagnosis. Modern approaches to treatment.	5
12	Urgent conditions in diseases of the liver and kidneys. Modern approaches in diagnosis and treatment.	5
13	Acute coronary syndrome in the clinic of internal diseases. Modern approaches in diagnosis and treatment.	5
14	Acute left ventricular failure. The current state of the problem.	5
15	An attack of bronchial asthma. Modern approaches in diagnosis and treatment.	5

The following educational technologies are used in the process of teaching the discipline:

1. Informational lecture, visualization lecture, problem lecture.
2. Clinical practical exercises at the patient's bedside, requiring the use of practical skills, discussion seminars, clinical analyses, practical training based on the case method, computer simulation.
3. The use of game technologies with the recreation of situations through educational, business and role-playing games.

Only 70% of interactive classes from the volume of classroom work.

Examples of educational technologies in an interactive form:

1. Discussion of educational clinical case histories during a practical lesson.

2. Collective discussion of anamnesis, symptoms, objective signs of the patient's disease based on the results of practical work at the patient's bedside – seminar-discussion.
3. Student clinical Conference.

7. Types of assessment formats for ongoing monitoring and mid-term assessment

№	Semester No.	Types of control	Name of section of academic discipline	Competence codes		
					types	number
1	2	3	4	5	6	7
1.	5	Control of the student's independent work, control of the development of the topic, control of the development of practical skills	Emergency conditions in diseases of the respiratory system	tests	10	No limited Computer tests
				Clinical cases	1	15
2.	5	Control of the student's independent work, control of the development of the topic, control of the development of practical skills	Urgent conditions in diseases of the cardiovascular system	tests	10	No limited
				Case reports	1	Depends on numbers of students in the group
				Interpretation of results	5	10
3.	5	Control of the student's independent work, control of the development of the topic, control of the development of practical skills	Urgent conditions in diseases of the digestive system	tests	20	No limited
				Individual tasks	1	15
				cases	1	15
				Control questions	3	15
4	5	Control of the student's independent work, control of the development of the topic, control of the development of practical skills	Urgent conditions in diseases of the endocrine system	tests	10	No limited
				Individual tasks	1	15
				Case reports	1	Depends on numbers of students in the group
				Tests of the practical skills	8	10
				cases	1	15
				Control questions	5	15
4.	5	Control of the student's independent work, control of the	Urgent conditions in the clinic of internal diseases	tests	10	No limited
				Individual tasks	1	15

		development of the topic, control of the development of practical skills		Case reports	1	Depends on numbers of students in the group
5.	5	Intermediate certification. Credit All sections of the discipline Control questions	ALL topics.	Control Questions	3	30
				cases	1	30

7.1. Examples of evaluation tools:

1. Intermediate certification - questions to prepare for the test:

1. The importance of anamnesis collection and physical examination in the diagnosis of emergency conditions in diseases of the respiratory system.
2. Urgent conditions in pulmonology. Bronchial asthma attack, asthmatic status. Causes, mechanisms of development, clinical manifestations, diagnostic methods, emergency care.
3. Urgent conditions in pulmonology. Spontaneous and valvular pneumothorax. Causes, mechanisms of development, clinical manifestations, diagnostic methods, emergency care.
4. Urgent conditions in pulmonology. Pulmonary hemorrhage. Causes, mechanisms of development, clinical manifestations, diagnostic methods, emergency care.
5. Urgent conditions in pulmonology. Acute respiratory failure. Causes, mechanisms of development, clinical manifestations, diagnostic methods, emergency care.
6. Urgent conditions in pulmonology. Acute respiratory distress syndrome. Causes, mechanisms of development, clinical manifestations, diagnostic methods, emergency care.
7. Emergency conditions in cardiology. Pulmonary embolism. Causes, mechanisms of development, clinical manifestations, diagnostic methods, emergency care.
8. Emergency conditions in cardiology. Acute cardiac arrhythmias and conduction disorders. Causes, mechanisms of development, clinical manifestations, diagnostic methods, emergency care.
9. Emergency conditions in cardiology. Acute vascular insufficiency. Causes, mechanisms of development, clinical manifestations, diagnostic methods, emergency care.
10. Emergency conditions in cardiology. Acute coronary insufficiency. Causes, mechanisms of development, clinical manifestations, diagnostic methods, emergency care.
11. Emergency conditions in cardiology. Acute left ventricular failure (cardiac asthma). Causes, mechanisms of development, clinical manifestations, diagnostic methods, emergency care.
12. Emergency conditions in cardiology. Hypertensive crisis. Causes, mechanisms of development, clinical manifestations, diagnostic methods, emergency care.
13. Emergency conditions in cardiology. Sudden death. Causes, mechanisms of development, clinical manifestations, diagnostic methods, emergency care.
14. The importance of electrocardiography in the diagnosis of emergency conditions in the clinic of internal diseases.
15. Urgent conditions in gastroenterology. Biliary colic. Causes, mechanisms of development, clinical manifestations, diagnostic methods, emergency care.
16. Urgent conditions in gastroenterology. Acute bleeding from the digestive tract. Causes, mechanisms of development, clinical manifestations, diagnostic methods, emergency care.
17. Urgent conditions in gastroenterology. Hepatic encephalopathy and coma. Causes, mechanisms of development, clinical manifestations, diagnostic methods, emergency care.
18. Emergency conditions in the clinic of internal diseases. Infectious and toxic shock. Causes, mechanisms of development, clinical manifestations, diagnostic methods, emergency care.
19. Emergency conditions in the clinic of internal diseases. Hypovolemic shock. Causes, mechanisms of development, clinical manifestations, diagnostic methods, emergency care.
20. Emergency conditions in the clinic of internal diseases. Anaphylactic shock. Causes, mechanisms of development, clinical manifestations, diagnostic methods, emergency care.
21. Urgent conditions in diseases of the endocrine system. Thyrotoxic crisis. Causes, mechanisms of development, clinical manifestations, diagnostic methods, emergency care.
22. Urgent conditions in diseases of the endocrine system. Hypothyroid coma. Causes, mechanisms of development, clinical manifestations, diagnostic methods, emergency care.

23. Urgent conditions in diseases of the endocrine system. Acute insufficiency of the adrenal cortex. Causes, mechanisms of development, clinical manifestations, diagnostic methods, emergency care.

24. Urgent conditions in diseases of the endocrine system. Hypothalamic-pituitary coma. Causes, mechanisms of development, clinical manifestations, diagnostic methods, emergency care.

25. Urgent conditions in diseases of the endocrine system. Acute hypercalcemic and hypocalcemic crisis. Causes, mechanisms of development, clinical manifestations, diagnostic methods, emergency care.

26. Urgent conditions in diseases of the endocrine system. Hypoglycemic conditions. Causes, mechanisms of development, clinical manifestations, diagnostic methods, emergency care.

27. Urgent conditions in diseases of the endocrine system. Diabetic ketoacidosis and ketoacidotic coma. Causes, mechanisms of development, clinical manifestations, diagnostic methods, emergency care.

28. Urgent conditions in diseases of the endocrine system. Hyperosmolar coma. Causes, mechanisms of development, clinical manifestations, diagnostic methods, emergency care.

29. Urgent conditions in diseases of the endocrine system. Lactic acid coma. Causes, mechanisms of development, clinical manifestations, diagnostic methods, emergency care.

30. Modern methods of treatment of paroxysmal tachyarrhythmias.

2. Test control "Emergency conditions in the clinic of internal diseases"

1. Complications of the early period of pneumonia include:

- A) infectious and toxic shock
- B) acute arterial hypotension
- C) edema
- D) delirious syndrome
- E) exudative pleurisy

2. The following drugs are used for the treatment of stage I asthmatic status:

- A) beta2-agonists by inhalation
- B) nebulizer therapy with selective beta2-agonists
- C) ephyllin
- D) prednisone
- E) mucolytics
- E) diuretics

3. Indicate the most characteristic changes in the chest during valvular pneumothorax:

- A) reduction of half of the chest, its sinking and lagging in breathing
- B) lag in breathing, enlargement of half of the chest and smoothing of intercostal spaces
- C) only a lag in the breathing of half of the chest
- D) hyperstenotic chest
- E) an increase in the antero-posterior and transverse dimensions of the chest, the retraction of intercostal spaces in the lower lateral sections on both sides.

4. What is the main respiratory noise most often heard in spontaneous pneumothorax?

- A) weakened vesicular breathing
- B) amphoric respiration
- C) bronchial respiration
- D) hard breathing
- E) mixed bronchovesicular respiration

5. Indicate the most characteristic changes in the chest with a closed pneumothorax:

- A) reduction of half of the chest, its sinking and lagging in breathing
- B) lag in breathing, enlargement of half of the chest and smoothing of intercostal spaces
- C) only a lag in the breathing of half of the chest
- D) hyperstenotic chest
- E) an increase in the antero-posterior and transverse dimensions of the chest, the retraction of intercostal spaces in the lower lateral sections on both sides

6. What is a potentially threatening sign of asthmatic status?
- weakened vesicular respiration
 - tachypnea
 - bronchial respiration
 - bradypnea
 - absence of respiratory noises during auscultation
7. What kind of dyspnea is most characteristic of asthmatic status?
- stridorous breathing
 - expiratory dyspnea
 - Kussmaul breathing or Cheyne-Stokes breathing
 - Cheyne-Stokes breathing or Biota breathing
 - inspiratory dyspnea
8. What is an ECG- a sign of the development of pulmonary embolism?
- overload of the left ventricle
 - overload of the right ventricle
 - the development of tachyarrhythmia
 - development of atrioventricular blockade
 - the appearance of a pathological Q wave
9. Dose of glucocorticoids in stage II asthmatic status:
- 30-60 mg I / v every 6 hours
 - 60-90 mg I / v every 3 hours
 - 60-120 mg I / v every 60-90 minutes
 - 120-150 mg I / v every 2 hours
10. For the treatment of thyrotoxic crisis are used:
- anaprilin
 - mercazolil
 - levothyroxine
 - glucocorticosteroids
 - cordaron

3. Situational tasks (example)

A 52-year-old patient was admitted to the hospital with complaints of burning chest pain, which appeared 6 hours ago. Pain radiates to both shoulders and shoulder blades. The pain attack appeared at rest when the patient was resting at home on the couch. In addition, he feels interruptions in the work of the heart, it is difficult for him to breathe, he is dizzy. It is known from the anamnesis that he has been suffering from Hypertension for 12 years, but he takes medications irregularly, does not control blood pressure. The patient smokes up to a pack of cigarettes a day, takes strong alcohol at least once a week. It was found out from the family history that the patient's mother died of a stroke, and his father from a "heart disease". On objective examination, the condition is of moderate severity, the patient is sitting on the edge of the bed, his hands are on his knees, his skin is wet and cold, cyanosis of the lips, nose, ears, fingers are pale and cold; vital signs: pulse rate 118 per minute, irregular pulse, low filling, respiratory rate 32 per minute, Blood pressure 95/60 mmHg, temperature 36.0. Small xanthelasms are noted on the lower eyelids. During auscultation of the lungs, moist medium- and small-bubbly wheezes are heard over the lower lobes of the lungs on both sides. With percussion of the heart, the left border of the heart is expanded to the left by 3 cm. During auscultation of the heart, deaf irregular heart tones with a heart rate of 130 per minute and an accent of the second tone in the aortic region are heard.

task:

- Name and justify the syndromes
- Formulate the diagnosis in accordance with the modern classification.
- Schedule an additional laboratory and instrumental examination of the patient

8. Educational, methodological and informational support for mastering the academic discipline (printed, electronic publications, the Internet and other network resources)

8.1. Key literature references

№	Name according to bibliographic requirements	Number of copies	
		at the department	in the library
1			
2	Strongin L. G. Guidelines for case reports, medical history collection and physical examination : a textbook for foreign English-speaking medical students. NNSMA Publishing House, 2014. - 64 p.		
3	Bickley Lynn S. Bates Pocket Guide to Physical Examination and Medical History Collection. Lippincott, 2013.		
4	Gritsevskaya I.M. Learning to listen and understand the patient: a textbook on learning Russian as a foreign language in the framework of clinical practice for foreign medical students. NizhGMA Publishing House, 2014. – 150 p.		
5	Botova S. N. Practical aspects of spirometry : a textbook for foreign medical students. NNSMA Publishing House, 2015.- 56 p.		
6	Strongin L. G. Interpretation of ECG data : a textbook for foreign English-speaking medical students. NNSMA Publishing House, 2014. - 68 p.		
7	Strongin L. G. Diabetes mellitus : a textbook for foreign English-speaking medical students. NNSMA Publishing House, 2015.-100 S.		
8	P. Kumar, M. Clark..Clinical Medicine / ed. – 8th ed. – Edinburgh: Saunders, 2012. – 1286 p.		
9	Longo Dan L. Principles of Internal Medicine Harrison. Vol.1. McGraw-Hill, 2012		

8.2. Further reading

№	Name according to bibliographic requirements	Number of copies	
		at the department	in the library
1	Clinical history taking and examination.- Welsby Philip D. Churchill Livingstone,2002– 158p.		
2	Shchukin Yu.V. Propaedeutics of internal diseases Methods of patient research: textbook. Rostov-on-Don: Phoenix, 2014. – 287c.		
3	Internal diseases propedeutics : textbook. V. T. Ivashkin and A.V.Okhlobystin, Moscow : GEOTAR-Media, 2006 - 176 p.		
4	Swash M. Hutchisons Clinical Methods, – 21st ed. – Edinburgh : W.B. Saunders, 2002. – 501 pp		
5	J. R. Hampton The ECG made easy – 7th ed. – Edinburgh: Churchill Livingstone, 2008. – 179 pp.		
6	V. Kumar, A. K. Abbas Robbins and Cotran pathological basis of disease edited by Vinay Kumar and Abul K. Abbas . 7th ed.- Elsevier Saunders, 2005. (2005) - 1525 p. 1 CD-Rom.		
7	N. A. Boon, N. R. Colledge, B. R. Walker, J. A. A. Hunter. Davidson's principles and practice of medicine		

	/ edited by – 20th ed. – Edinburgh : Churchill Livingstone, 2006. – 1381 p.	
8	Mukhin N.A. Propaedeutics of internal diseases : a textbook with an appendix on a CD - 2nd ed. supplement and revision – M. : GEOTAR-Media, 2009. – 848 p.	
9	Butov M.A. Propaedeutics of internal diseases: textbook., Moscow: FORUM, 2011. – 512s.	
10	D. A. Shikhnebiev, Propaedeutics of internal diseases with the basics of general patient care: textbook for students of medical universities – Makhachkala : Science-Dagestan, 2015. – 252 p.	

8.3. List of methodological recommendations for independent work of students:

1. Strongin L. G. Guidelines for case reports, medical history collection and physical examination : a textbook for foreign English-speaking medical students. NNSMA Publishing House, 2014. - 64 p.
2. Bickley Lynn S. Bates Pocket Guide to Physical Examination and Medical History Collection. Lippincott, 2013.
3. Gritsevskaya I.M. Learning to listen and understand the patient: a textbook on learning Russian as a foreign language in the framework of clinical practice for foreign medical students. NizhGMA Publishing House, 2014. – 150 p.
4. Botova S. N. Practical aspects of spirometry : a textbook for foreign medical students. NNSMA Publishing House, 2015.- 56 p.
5. Strongin L. G. Interpretation of ECG data : a textbook for foreign English-speaking medical students. NNSMA Publishing House, 2014. - 68 p.
6. Strongin L. G. Diabetes mellitus : a textbook for foreign English-speaking medical students. NNSMA Publishing House, 2015.-100 S.
7. P. Kumar, M. Clark..Clinical Medicine / ed. – 8th ed. – Edinburgh: Saunders, 2012. – 1286 p.
8. Longo Dan L. Principles of Internal Medicine Harrison. Vol.1. McGraw-Hill, 2012
9. Longo Dan L. Harrison's Principles of Internal Medicine. Vol.2. McGraw-Hill, 2012
10. Collection of clinical history and examination.- Welsby Philip D. Churchill Livingston, 2002– 158 p.
11. Propaedeutics of internal diseases : textbook. V. T. Ivashkin, A.V.Okhlobystin, Moscow : GEOTAR-Media, 2006 - 176 p.
12. Swash M. Hutchison Clinical Methods, – 21st ed. – Edinburgh: W.B. Saunders, 2002. – 501 s..
13. J. R. Hampton "ECG made easy" – 7th ed. – Edinburgh: Churchill Livingston, 2008. – 179 p.
14. V. Kumar, A. K. Abbas Robbins and Kotran "Pathological foundations of disease" edited by Vinay Kumar and Abul K. Abbas. 7th ed.- Elzevir Saunders, 2005. (2005) - 1525 p. 1 CD.
15. N.A. Boone, N. R. College, B. R. Walker, J. Hunter. Principles and Practice of Davidson Medicine / edited – 20th ed. – Edinburgh: Churchill Livingston, 2006. – 1381 S.
16. D. Kasper, E. Braunwald, A.Fauci, S.Hauser "Principles of Harrison's Internal Medicine" / edited – 16th ed. McGraw-Hill Medical Publishing division, 2018. – 2783c.

8.4 Electronic educational resources for teaching academic subjects

8.4.1. Internal Electronic Library System of the University (IELSU)

№	Name of the electronic resource	Brief description (content)	Access conditions	Number of users
	Internal Electronic Library System (EBS) PIM	Works of PIM employees (textbooks, manuals, collections of tasks, manuals, laboratory work, monographs, etc.)	Access by individual login and password from any computer and mobile device is	

			not limited	
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8.4.2. Electronic educational resources acquired by the University

<i>№</i>	<i>Name of the electronic resource</i>	<i>Brief description (content)</i>	<i>Access conditions</i>	<i>Number of users</i>
1	Database "Medicine. Healthcare (VO) and "Medicine. Healthcare (SPO)" as part of the database "Electronic library of a technical university (EBS "Student Consultant" Textbooks and manuals for higher medical and pharmaceutical education.		Access by individual login and password from any computer and mobile device	
2	Database "Doctor's consultant. Electronic Medical Library" National guidelines, clinical guidelines, textbooks, monographs, atlases, reference books, etc. Access by individual login and password from any computer and mobile device is not limited		Access by individual login and password from any computer and mobile device	
3	Database "Electronic library system "Bukap" Educational and scientific medical literature of Russian publishers, including translated editions. The collection of subscription publications is formed point-by-point. Access by individual login and password from any computer and mobile device.		Access by individual login and password from any computer and mobile device	

8.4.3 Open access resources

<i>№</i>	<i>Name of the electronic resource</i>	<i>Brief description (content)</i>	<i>Access conditions</i>
1.	EBS "Student Consultant"	Educational resource (www.studentlibrary.ru) for students of medical and pharmaceutical universities is an electronic library system (EBS) that provides access via the Internet to electronic versions of educational, scientific literature and additional materials.	Free from any computer and mobile device.
2	«Free Medical Journals»	Catalog of links to foreign medical journals, open for free	Free from any computer and mobile device.

		access to the full texts of articles. http://www.freemedicaljournals.com / Free from any computer and mobile device.	
3	http://www.freebooks4doctors.com/	Catalog of links to foreign medical journals, open for free access to the full texts of articles. http://www.freemedicaljournals.com / Free from any computer and mobile device.	Free from any computer and mobile device.
4	High Wire. Library of the Sciences and Medicine	A large database of journal articles is presented on the website of the Stanford University Publishing House. Individual journals are completely open for free access. http://highwire.stanford.edu/	Free from any computer and mobile device.
5	BioMed Central	Electronic archive of open access to the results of research in the field of medicine, biology and technology. The portfolio includes articles from more than two hundred peer-reviewed journals http://www.biomedcentral.com	Free from any computer and mobile device.
6	Oxford Medicine	Online is a collection of publications of the Oxford Publishing House on medical topics, combining over 350 publications into a common resource with the possibility of cross-searching. Publications include The Oxford Handbook of Clinical Medicine and The Oxford Textbook of Medicine, the electronic versions of which are constantly updated. http://www.oxfordmedicine.com	Free from any computer and mobile device.
7	PubMed	Is a free search engine in the largest medical bibliographic database MedLine. Documents medical and biological articles from specialized literature, and also provides links to full-text articles. http://www.ncbi.nlm.nih.gov/pubmed	Free from any computer and mobile device.

9. Material and technical support for mastering an academic discipline

9.1. The list of premises required for conducting classroom classes in the discipline.

1. Lecture hall equipped with presentation equipment, multimedia complex (screen, laptop, projector).
2. An auditorium equipped with an interactive complex for practical classes and conferences.
3. Classrooms for conducting practical classes with students (3 classrooms), information stands, computers, interactive whiteboards, multimedia complex, slide show, DVD films by sections: methods of examination of a patient in therapeutic practice, assessment of vital signs, examination of a patient with diseases of the respiratory system, cardiovascular system, gastrointestinal diseasesintestinal tract, with joint diseases, auscultation of the heart, auscultation of the lungs, cardiac murmurs.
4. Offices for working with patients receiving medical care in therapeutic, cardiological, intensive care, polyclinic departments, as well as undergoing examination in the department of functional diagnostics and endoscopy.

9.2. List of equipment* required for conducting classroom classes in the discipline.

1. Information stands
2. Personal computers
3. Interactive whiteboard with multimedia complex
4. TV
5. Slide show,
6. DVD films by sections: methods of examination of a patient in therapeutic practice, assessment of vital signs, examination of a patient with diseases of the respiratory system, cardiovascular system, gastrointestinal tract diseases, joint diseases, auscultation of the heart, auscultation of the lungs, cardiac murmurs.
7. Magnetic marker boards
8. Sets of thematic tables and multimedia visual materials on various sections of the discipline
9. A set of electrocardiograms, spiograms, echocardiograms, radiographs, blood tests, urine, sputum

9.3. A set of licensed and freely distributed software, including domestic production

Item no.	Software	number of licenses	Type of software	Manufacturer	Number in the unified register of Russian software	Contract No. and date
1	Wtware	100	Thin Client Operating System	Kovalev Andrey Alexandrovich	1960	2471/05-18 from 28.05.2018
2	MyOffice is Standard. A corporate user license for educational organizations, with no expiration date, with the right to receive updates for 1 year.	220	Office Application	LLC "NEW CLOUD TECHNOLOGIES"	283	without limitation, with the right to receive updates for 1 year.
3	LibreOffice		Office Application	The Document Foundation	Freely distributed software	
4	Windows 10 Education	700	Operating systems	Microsoft	Azure Dev Tools for Teaching Subscription	
5	Yandex. Browser		Browser	«Yandex»	3722	
6	Subscription to	170	Office	Microsoft		23618/HN100

MS Office Pro for 170 PCs for FGBOU VO "PIMU" of the Ministry of Health of Russia	Application	30 LLC "Softline Trade" from 04.12.2020
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10. List of changes to the working program (to be filled out by the template)

Federal State Budgetary Educational Institution of Higher Education
"Privolzhsky Research Medical University"
Ministry of Health of the Russian Federation
(FSBEI HE "PRMU" of the Ministry of Health of Russia)

Department of
Name of the department

CHANGE REGISTRATION SHEET

working program for the academic discipline
NAME OF THE ACADEMIC DISCIPLINE

Field of study / specialty / scientific specialty: _____
(code, name)

Training profile: _____
(name) - for master's degree programs

Mode of study: _____
full-time/mixed attendance mode/extramural

Position	Number and name of the program section	Contents of the changes made	Effective date of the changes	Contributor's signature
1				

Approved at the department meeting
Protocol No. _____ of _____ 20__

Head of the Department

department name, academic title

signature

print name